

**Reply Under 37 C.F.R. § 1.116 – Expedited Procedure**

Serial No.: 09/702,512

Examiner: Djenane M. Bayard

**REMARKS**

Claims 1 through 53 were previously canceled. Claims 54 through 71 were previously added.

**Rejections under 35 U.S.C. 102**

The Office Action rejected claims under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,625,135 to Johnson et al. (the Johnson reference). However, the Johnson reference fails to teach or suggest the requirements of the claims.

**Independent Claim 54 and dependent claims 55 through 65**

The Johnson reference fails to teach or suggest the requirement, *inter alia*, of claim 54, “if the home agent supports simple multicast extensions for multicasting IP messages, allocating a source specific multicast address to the mobile node and appending the source specific multicast address in a source specific multicast address extension to a mobile IP registration reply.” The Johnson reference states at column 6, lines 1 through 8 that when the mobile node detects that it is on a foreign network, a care-of address is obtained from the foreign agent advertisement message (i.e. the foreign agent address R4 in Figure 2 address). The mobile node then registers its care-of address with the home agent, as stated at column 6, lines 9 through 11. Alternatively it states the mobile node may attempt to obtain a co-located care-of address using a service such as DHCP. Nowhere does this description provide that the home agent allocates a source specific multicast address to the mobile node and appends the source specific multicast address to the mobile IP registration reply to the mobile node.

Furthermore, the Johnson reference fails to teach or suggest the requirement, *inter alia*, of claim 54 of, “transmitting an agent advertisement message from a foreign agent in a foreign domain to be broadcast in the foreign domain, wherein the agent advertisement message includes a network access identifier extension that indicates a capability of the foreign agent to support source specific multicast services for multicasting IP messages.” At column 5, lines 63 through 65, the Johnson reference states that the foreign agent advertises its presence using agent advertisement messages. There is no description that the agent advertisement messages include a

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network access identifier extension that indicates a capability of the foreign agent to support source specific multicast services for multicasting IP messages.

**Independent Claim 66 and dependent claims 67 through 71**

The Johnson reference also fails to teach or suggest the requirements, *inter alia*, of claim 66 of, “determining by the mobile node from the network access identifier extension to the agent advertisement message that the mobile node has not entered a new foreign domain but has entered into coverage area of a new foreign agent within the same foreign domain; and transmitting a multicast subscription request with an authentication extension to the new foreign agent in response to entering coverage area of the new foreign agent within the same foreign domain, wherein the multicast subscription request includes address of the home agent for the mobile node and address of each correspondent that has received a binding update message from the home agent.” The Johnson reference merely states at column 6, lines 1 through 3, that when it detects that it is on a foreign network, it obtains a care-of address. There is no discussion of determining from a network access identifier whether the mobile node has entered into a new foreign network or just within coverage area of a new foreign agent within the same foreign network. There is also no discussion of transmission of a multicast subscription request in response to entering coverage area of the new foreign agent within the same foreign domain.

**Rejections under 35 U.S.C. 103**

The Office Action rejected cited various other claims under 35 U.S.C. 103 as being unpatentable over the Johnson reference in view of U.S. Patent No. 6,243,758 to Okanou (the Okanou reference). However, the Okanou reference fails to add to the Johnson reference to teach or suggest the requirements of the claims for the following reasons.

**Independent Claim 54 and dependent claims 55 through 65**

The Okanou reference fails to teach or suggest the requirement, *inter alia*, of claim 54, “if the home agent supports simple multicast extensions for multicasting IP messages, allocating a source specific multicast address to the mobile node and appending the source specific multicast address in a source specific multicast address extension to a mobile IP registration reply.” The Okanou reference states at column 4, lines 20 through 30 that when a home agent

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receives a message from the foreign agent of the foreign agent's network address and informing the home agent of the visiting mobile host, "the home agents tells the foreign agent to proceed." Nowhere does this description provide that the home agent allocates a source specific multicast address to the mobile node and appends the source specific multicast address to the mobile IP registration reply to the mobile node.

Furthermore, the Okanoué reference fails to teach or suggest the requirement, *inter alia*, of claim 54 of, "transmitting an agent advertisement message from a foreign agent in a foreign domain to be broadcast in the foreign domain, wherein the agent advertisement message includes a network access identifier extension that indicates a capability of the foreign agent to support source specific multicast services for multicasting IP messages." At column 4, lines 14 through 15, the Okanoué reference states that the foreign agent broadcasts a packet announcing its existence and address. There is no description that the agent advertisement messages include a network access identifier extension that indicates a capability of the foreign agent to support source specific multicast services for multicasting IP messages.

**Independent Claim 66 and dependent claims 67 through 71**

The Okanoué reference also fails to teach or suggest the requirements, *inter alia*, of claim 66 of, "determining by the mobile node from the network access identifier extension to the agent advertisement message that the mobile node has not entered a new foreign domain but has entered into coverage area of a new foreign agent within the same foreign domain; and transmitting a multicast subscription request with an authentication extension to the new foreign agent in response to entering coverage area of the new foreign agent within the same foreign domain, wherein the multicast subscription request includes address of the home agent for the mobile node and address of each correspondent that has received a binding update message from the home agent." The Okanoué reference merely states at column 4, lines 13 through 21, that when it detects that it is on a foreign network, the mobile host registers with the foreign agent, giving its home address, current data link layer address and some security information. There is no discussion of determining from a network access identifier whether the mobile node has entered into a new foreign network or just within coverage area of a new foreign agent within the same foreign network. There is also no discussion of transmission of a multicast subscription

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request in response to entering coverage area of the new foreign agent within the same foreign domain.

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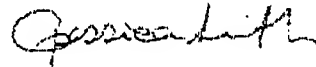
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**CONCLUSION**

For the above reasons, the foregoing amendment places the Application in condition for allowance. Therefore, it is respectfully requested that the rejection of the claims be withdrawn and full allowance granted. Should the Examiner have any further comments or suggestions, please contact Jessica Smith at (972) 477-9109.

Respectfully submitted,

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